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## RAW SEQUENCE LISTING

DATE: 08/13/2004

PATENT APPLICATION: US/10/672,069A

TIME: 15:41:36

Input Set : A:\SEQLIST corr.txt

Output Set: N:\CRF4\08132004\J672069A.raw

4 <110> APPLICANT: RANA, Tariq M.  
 5 CHIU, Ya-Lin  
 8 <120> TITLE OF INVENTION: IN VIVO GENE SILENCING BY CHEMICALLY  
 9 MODIFIED AND STABLE sirNA  
 12 <130> FILE REFERENCE: UMY-062  
 14 <140> CURRENT APPLICATION NUMBER: 10/672069A  
 15 <141> CURRENT FILING DATE: 2003-09-25  
 17 <150> PRIOR APPLICATION NUMBER: 60/413529  
 18 <151> PRIOR FILING DATE: 2002-09-25  
 20 <150> PRIOR APPLICATION NUMBER: 60/426982  
 21 <151> PRIOR FILING DATE: 2002-11-15  
 23 <150> PRIOR APPLICATION NUMBER: 60/458051  
 24 <151> PRIOR FILING DATE: 2003-03-25  
 26 <150> PRIOR APPLICATION NUMBER: 60/493095  
 27 <151> PRIOR FILING DATE: 2003-08-05  
 29 <160> NUMBER OF SEQ ID NOS: 34  
 31 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 33 <210> SEQ ID NO: 1  
 34 <211> LENGTH: 21  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Artificial Sequence  
 38 <220> FEATURE:  
 39 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
 40 positions 20 and 21  
 42 <400> SEQUENCE: 1  
 43 gcagcagcagc uucuucaagt t 21  
 45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 21  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence  
 50 <220> FEATURE:  
 51 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
 52 positions 20 and 21  
 54 <400> SEQUENCE: 2  
 55 cuugaagaag ucgugcugct t 21  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 21  
 59 <212> TYPE: RNA  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: sirNA target sequence  
 65 <400> SEQUENCE: 3  
 66 aagcagcacg acuucucaa g 21

**ENTERED**

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68 <210> SEQ ID NO: 4
69 <211> LENGTH: 21
70 <212> TYPE: RNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: sirNA target sequence
76 <400> SEQUENCE: 4
77 aagugggagc gcgugaugaa c 21
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 21
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
86 positions 20 and 21
88 <400> SEQUENCE: 5
89 gugggagcgc gugaugaact t 21
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 21
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
98 positions 20 and 21
100 <400> SEQUENCE: 6
101 guucaucacg cgcucccact t 21
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
110 positions 20 and 21
112 <220> FEATURE:
113 <221> NAME/KEY: modified_base
114 <222> LOCATION: 1
115 <223> OTHER INFORMATION: 5'-aminopropyl-modified guanosine
117 <400> SEQUENCE: 7
118 gcagcacgac uucuucaagt t 21
120 <210> SEQ ID NO: 8
121 <211> LENGTH: 21
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
127 positions 20 and 21
129 <220> FEATURE:
130 <221> NAME/KEY: modified_base
131 <222> LOCATION: 1

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132 <223> OTHER INFORMATION: 5'-aminopropyl-modified cytidine
134 <400> SEQUENCE: 8
135 cuugaagaag ucgugcugct t 21
137 <210> SEQ ID NO: 9
138 <211> LENGTH: 21
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidine at
144     positions 20
146 <220> FEATURE:
147 <221> NAME/KEY: modified_base
148 <222> LOCATION: 21
149 <223> OTHER INFORMATION: 3'-Puromycin modified deoxythymidine
151 <400> SEQUENCE: 9
152 gcagcagcagc uucuucaagt t 21
154 <210> SEQ ID NO: 10
155 <211> LENGTH: 21
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidine at
161     positions 20
163 <220> FEATURE:
164 <221> NAME/KEY: modified_base
165 <222> LOCATION: 21
166 <223> OTHER INFORMATION: 3'-Puromycin-modified deoxythymidine
168 <400> SEQUENCE: 10
169 cuugaagaag ucgugcugct t 21
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 21
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidine at
178     position 20 and 3'-Biotin-modified deoxythymidine at
179     position 21
181 <220> FEATURE:
182 <221> NAME/KEY: modified_base
183 <222> LOCATION: 21
184 <223> OTHER INFORMATION: 3'-Biotin-modified deoxythymidine
186 <400> SEQUENCE: 11
187 cuugaagaag ucgugcugct t 21
189 <210> SEQ ID NO: 12
190 <211> LENGTH: 23
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at

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196      positions 22 and 23
198 <400> SEQUENCE: 12
199 gcagcacgac uguucuucaa gtt                23
201 <210> SEQ ID NO: 13
202 <211> LENGTH: 23
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
208      positions 22 and 23
210 <400> SEQUENCE: 13
211 cuugaagaaa cgucgugcug ctt                23
213 <210> SEQ ID NO: 14
214 <211> LENGTH: 21
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxynucleosides at
220      positions 1-21
222 <400> SEQUENCE: 14
223 cuugaagaag ucgugcugct t                21
225 <210> SEQ ID NO: 15
226 <211> LENGTH: 21
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
232      positions 20 and 21
234 <220> FEATURE:
235 <221> NAME/KEY: modified_base
236 <222> LOCATION: 2, 3, 11, 14, 17
237 <223> OTHER INFORMATION: 2'-fluoro uridine
239 <220> FEATURE:
240 <221> NAME/KEY: modified_base
241 <222> LOCATION: 1, 12, 16, 19
242 <223> OTHER INFORMATION: 2'-fluoro cytidine
244 <400> SEQUENCE: 15
245 cuugaagaag ucgugcugct t                21
247 <210> SEQ ID NO: 16
248 <211> LENGTH: 21
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
254      positions 20 and 21, deoxyadenosine at position 9 and
255      deoxyguanosine at positions 10 and 13
257 <220> FEATURE:
258 <221> NAME/KEY: modified_base
259 <222> LOCATION: 2, 3, 11, 14, 17

```

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260 <223> OTHER INFORMATION: 2'-fluoro uridine
262 <220> FEATURE:
263 <221> NAME/KEY: modified_base
264 <222> LOCATION: 1, 12, 16, 19
265 <223> OTHER INFORMATION: 2'-fluoro cytidine
267 <400> SEQUENCE: 16
268 cuugaagaag ucgugcugct t 21
270 <210> SEQ ID NO: 17
271 <211> LENGTH: 21
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
277 positions 20 and 21, deoxyadenosine at position 9 and
278 deoxyguanosine at positions 10, 13, 15 and 18
280 <220> FEATURE:
281 <221> NAME/KEY: modified_base
282 <222> LOCATION: 2, 3, 11, 14, 17
283 <223> OTHER INFORMATION: fluoro uridine
285 <220> FEATURE:
286 <221> NAME/KEY: modified_base
287 <222> LOCATION: 1, 12, 16, 19
288 <223> OTHER INFORMATION: 2'-fluoro cytidine
290 <400> SEQUENCE: 17
291 cuugaagaag ucgugcugct t 21
293 <210> SEQ ID NO: 18
294 <211> LENGTH: 21
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at
300 positions 20 and 21, deoxyadenosine at position 5, 6, 8, 9 and
301 deoxyguanosine at positions 4, 7, 10 and 13
303 <220> FEATURE:
304 <221> NAME/KEY: modified_base
305 <222> LOCATION: 2, 3, 11, 14, 17
306 <223> OTHER INFORMATION: 2'-fluoro uridine
308 <220> FEATURE:
309 <221> NAME/KEY: modified_base
310 <222> LOCATION: 1, 12, 16, 19
311 <223> OTHER INFORMATION: 2'-fluoro cytidine
313 <400> SEQUENCE: 18
314 cuugaagaag ucgugcugct t 21
316 <210> SEQ ID NO: 19
317 <211> LENGTH: 21
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at

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**VERIFICATION SUMMARY**

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